DT02 Rec'd PCT/PT0_0 7 MAR 2005

CASE CO/2-22 A/PCT

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class main in an envelope addressed to the: Commissioner for Patents, P.Q. Box 1450, Alexandria, VA 22313-1450.

<u>Anna K. Madd</u>aleno

Signature

3/4/05 Date

R 0 7 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

REPCT NATIONAL STAGE APPLICATION OF

Group Art Unit:

JEAN-PIERRE WOLF ET AL.

Examiner:

INTERNATIONAL APPLICATION NO. PCT/EP 03/05801

FILED: JUNE 3, 2003

FOR: MULTIMER FORMS OF MONO- AND BIS-

ACYLPHOSPHINE OXIDES

U.S. APPLICATION NO: 10/517,231

35 USC 371 DATE: DECEMBER 7, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 CFR 1.56, Applicants wish to call the Examiner's attention to the references cited on the attached form PTO-1449. Copies of the International Search Report and the references cited therein were supplied when this application entered the U.S. national phase. The International Search Report indicates that U.S. Patents 5,410,060, 4,324,744 and U.S. 5,218,009 are substantively cumulative English language counterparts of EP 0601413, EP 0007508 and EP 0413657 respectively. Enclosed herewith is an English language abstract for DE 2245817.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form.

Respectfully submitted,

Tyler A. Stevenson Agent for Applicants Reg. No. 46,388

Ciba Specialty Chemicals Corporation Patent Department 540 White Plains Road P.O. Box 2005 Tarrytown, NY 10591-9005 (914) 785-2783

Encl. Reference

PTO-1449 Form

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)				Docket Number (O)	Sheet 1 of 1. Application Number				
				CO/2-22694/A Applicant	CO/2-22694/A/PCT 10/517,231				
				1	JEAN-PIERRE WOLF ET AL.				
				Filing Date					
				December 7, 2004					
		<u> </u>	U.S. PATEN	NT DOCUMENT	<u>s</u>				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	FILING I	DATE IF	
	5,723,512	3/98	Leppard et a	ıl	522	55			
	6,737,549	5/04	Wolf et al		568	14			
	2005/0004247	1/05	Wolf et al		522	8			
	2001/031898	10/01	Wolf et al		568	13			
	5,410,060	4/95	Schroeder et al		546	21			
	4,324,744	4/82	Lechtken et al		260	932			
	5,218,009	6/93	Rutsch et al		522	16			
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		FC	DREIGN PAT	TENT DOCUME	NTS				
								lation	
	DOCUMENT NUMBER	DATE	COUNTRY CLAS		CLASS	SUBCLASS	YES	NO	
	0601413	6/94	Europe						
	0007508	2/80	Europe					ļ 	
	2245817	3/74	Germany						
	0413657	2/91	Europe					<u> </u>	
,	OTHER	R DOCU	MENTS (includ	ling Author, Title, Date	e, Pertinent Pages, Etc	c.)			
	A. R. Barron et al,	Journal of	the Chemica	l Society, Vol. 23	, (1987), pp. 1753	3-1754			
· · · · · · · · · · · · · · · · · · ·	L. Macarie et al., R	evista de	Chimie, Vol.	53. No. 7. (2002)	nn 568-571				
				20,11017, (2002),	рр. 200 271				
year=	Derwent Abstract 2	25165V/14	for DE 2245	817 (1974)			_ `		
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

BEST AVAILABLE CUPY

25165V/14 DYNAMT NOSEL AG A8-F3, A8-F4. 135 DYNH 19.09.72 PREPARATION programmed di-phosphonic esters - useful for flame proeting plastics, ving good competibility and solubility and low flow temp A60 E11 F66 19:09:72-01-245817 (28:62.74) C091-09/32 806m-13/28 By reacting trialkyl phosphites or phosphinic esters with ring-halogenated ferephthalyl chloride or p-xylylene dichloride, with elimination of alkyl chloride (Arbusov reaction), The novel esters are of formula pref. at 30-250°C. EXAMPLE 15.35 g (0.045 mole) tetrachloroterephthalyl dichloride and 25 g (0.1 mole) tributyl phosphite were reacted under N₂. The resultant BuCl was distilled off and the reaction temp. rose slowly to 180°C. Elimination of BuCl was complete after 1 hr. The excess tributyl phosphite was distilled off, leaving the phosphonate, m.pt. 43-45°C. (in which, independently, each R^1 is 1-8C allowy; R^2 is as R^1 , Ph or 2-8C alkyl; X is CH_2 or CO). Their mixts, and isomer mixts, are also claimed. ADVANTAGES High P content; good solubility in the common organic solvents; good compatibility with many plastics and fibre raw materials; and relatively low flow temp., facilitating blending with plastics. PREFERRED R¹ and R² are EtO and X is CH₂; or R¹ and R² are different alkoxy gps.; or R¹ is Ph. R² EtO and X CH₂.